

We claim:

1. A communication device configured to connect to at least one wireline, the communication device comprising:

a POTS interface system configured to receive analog voice signals for a call from a POTS provider over the at least one wireline;

the POTS interface system, responsive to receiving the analog voice signals for the call, converts the analog voice signals received over the at least one wireline from analog format to digital format to generate digital voice signals, and forwards the digital voice signals;

a processing system, responsive to receiving the digital voice signals, performs an application on the digital voice signals to provide at least one presentation format of the digital voice signals of the call to a user;

a conversion system, responsive to receiving the digital voice signals, converts the digital voice signals into analog voice signals and forwards the analog voice signals;

a voice interface system, responsive to receiving the analog voice signals from the conversion system, transmits audible signals to the user representing the analog voice signals; and

a digital interface system configured to receive digital data signals from a data service provider over the at least one wireline, and forward the digital data signals;

the processing system, responsive to receiving the digital data signals, performs an application on the digital data signals to provide additional data to the user.

2. The communication device of claim 1 wherein:

the digital voice signals of the call comprise bearer communications for the call; and

the processing system, responsive to receiving the digital voice signals, performs the application on the digital voice signals to generate text of the bearer communications for the call and display the text to the user through a data interface system.

3. The communication device of claim 1 wherein:

the processing system, responsive to receiving the digital voice signals, performs another application on the digital voice signals to format the digital voice signals for transmission to remote wireless devices.

5

4. The communication device of claim 1 wherein:

the processing system, responsive to receiving the digital data signals, performs the application on the digital data signals to display a telephone directory to the user.

10 5. The communication device of claim 1 wherein:

the processing system, responsive to receiving the digital data signals, performs the application on the digital data signals to display caller identification information for the call to the user.

15 6. The communication device of claim 1 wherein:

the processing system, responsive to receiving the digital data signals, performs the application on the digital data signals to display a web page to the user.

7. The communication device of claim 1 wherein:

20 the processing system, responsive to receiving the digital data signals, performs the application on the digital data signals to display a text message to the user.

8. The communication device of claim 1 wherein:

25 the processing system, responsive to receiving the digital data signals, performs another application on the digital data signals to provide digital telephone service to the user.

9. The communication device of claim 1 wherein:

30 the processing system, responsive to receiving the digital voice signals, performs the application on the digital voice signals to provide voice for the call to the user; and
the processing system, responsive to receiving the digital data signals, performs the application on the digital data signals to provide video for the call to the user.

10. The communication device of claim 1 wherein the communication device further comprises:

a power supply system that provides power to the communication device;
power detection system that detects an interrupt in the power provided by the power

5 supply system; and

POTS circuitry configured to receive the analog voice signals and transfer the
analog voice signals to the voice interface system,

the POTS circuitry, responsive to the power detection system detecting an interrupt
in power, transmits the analog voice signals to the POTS interface system instead of the
10 voice interface system.

11. A method of operating a communication device configured to connect to at least one
wireline, the method comprising the steps of:

receiving analog voice signals for a call from a POTS provider over the at least one
15 wireline,

converting the analog voice signals received over the at least one wireline from
analog format to digital format to generate digital voice signals,

performing an application on the digital voice signals to provide at least one
presentation format of the digital voice signals of the call to a user,

20 converting the digital voice signals into analog voice signals,

transmitting audible signals to the user representing the analog voice signals,

receiving digital data signals from a data service provider over the at least one
wireline, and

performing an application on the digital data signals to provide additional data to the
25 user.

12. The method of claim 11 wherein the digital voice signals of the call comprise bearer
communications for the call, and wherein the step of performing an application on the
digital voice signals to provide at least one presentation format of the digital voice signals to
30 a user comprises:

generating text of the bearer communications for the call; and
displaying the text to the user.

13. The method of claim 11 further comprising the step of:

performing another application on the digital voice signals to format the digital voice signals for transmission to remote wireless devices.

5 14. The method of claim 11 wherein the step of performing an application on the digital data signals to provide additional data to the user comprises:

displaying a telephone directory to the user.

10 15. The method of claim 11 wherein the step of performing an application on the digital data signals to provide additional data to the user comprises:

displaying caller identification information to the user.

16. The method of claim 11 wherein the step of performing an application on the digital data signals to provide additional data to the user comprises:

15 displaying a web page to the user.

17. The method of claim 11 wherein the step of performing an application on the digital data signals to provide additional data to the user comprises:

displaying a text message to the user.

20

18. The method of claim 11 further comprising the step of:

performing another application on the digital data signals to provide digital telephone service to the user.

25 19. The method of claim 11 further comprising the steps of:

performing the application on the digital voice signals to provide voice for the call to the user; and

performing the application on the digital data signals to provide video for the call to the user.

20. The method of claim 11 further comprising:

detecting an interrupt in the power provided to the communication device, and

converting the analog voice signals from analog format to digital format to generate digital voice signals responsive to not detecting an interrupt in the power, and

5 not converting the analog voice signals from analog format to digital format responsive to detecting an interrupt in the power.